
OUSTER
Lidar is
now digital.
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WE ARE FOCUSED ON WHAT MATTERS

Putting high-quality, real products in the hands of customers.

PERCEPTION

With industry-leading resolution and 16-bit intensity data, Ouster lidar sensors enable machine learning algorithms to accurately identify and classify objects in the real world. Our sensors are used in mines for identifying boulders, on trucks for identifying vehicles, and on robots for identifying pedestrians. Structured data from the sensor enables up to 50% faster annotation - reducing annotation bills and accelerating algorithm development.

MAPPING

Construct 3D maps faster and more accurately with high-resolution Ouster sensors featuring no range bias and 1 - 2 cm precision*. Quickly and easily integrate the sensor with external GNSS/INS units using either PTP or NMEA time synchronization protocols. At 396 g, the OS1 is the lightest lidar sensor available on the market, enabling drones to fly farther and robots to travel longer.

LOCALIZATION

Achieve centimeter-level accuracy with Ouster lidar sensors' wide FoV and 16-bit intensity data. Improve localization by leveraging unique features in the environment that are only visible with 16-bit data, such as tar on the road and writing on buildings. When combined with data from the built-in IMU, the intensity data enables you to run robust SLAM algorithms out of the box.

*80% reflective lambertian target at a distance of 50 m

NOW SHIPPING

OS1

STARTS AT $3,500

VERTICAL RESOLUTION
16, 64 or 128 channels

RANGE
120 m

FIELD OF VIEW (V X H)
33.2º x 360º

HORIZONTAL RESOLUTION
512, 1024, or 2048 (configurable)

VERTICAL ANGULAR RESOLUTION
2.2º - 0.53º

INGRESS PROTECTION
IP68, IP69K

FRAME RATE
10 or 20 Hz (configurable)

NOW SHIPPING

OS2

STARTS AT $24,000

VERTICAL RESOLUTION
64 channels

RANGE
240 m

FIELD OF VIEW (V X H)
22.5º x 360º

HORIZONTAL RESOLUTION
512, 1024, or 2048 (configurable)

VERTICAL ANGULAR RESOLUTION
2.35º

INGRESS PROTECTION
IP68, IP69K

FRAME RATE
10 or 20 Hz (configurable)

TOP

OS1 integrated onto an Ike Robotics autonomous truck

RIGHT

The OS1 is the centerpiece of the Postmates autonomous delivery rover's perception system

BOTTOM

OS1 integrated by UNR unto a drone for underground search and rescue